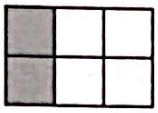
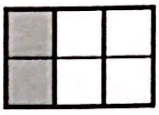
NS5-71: Equivalent Fractions

Aidan shades $\frac{2}{6}$ of the squares in an array: 

He then draws heavy lines around the squares to group them into 3 equal groups: 

He sees that $\frac{1}{3}$ of the squares are shaded.

The pictures show that two sixths are equal to one third: $\frac{2}{6} = \frac{1}{3}$

Two sixths and one third are **equivalent fractions.**

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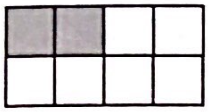
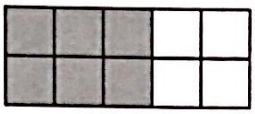
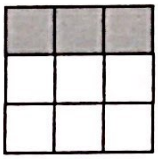
1. Group squares to show an equivalent fraction.

a) 

$\frac{2}{8} = \frac{\quad}{4}$

b) 

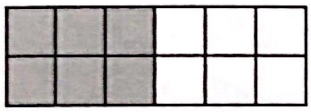
$\frac{6}{10} = \frac{\quad}{5}$

c) 

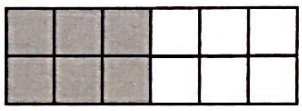
$\frac{3}{9} = \frac{\quad}{3}$

2. Group the squares to show ...

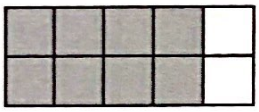
a) Six twelfths equals one half ($\frac{6}{12} = \frac{1}{2}$)



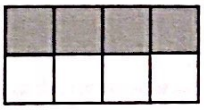
b) Six twelfths equals three sixths ($\frac{6}{12} = \frac{3}{6}$)



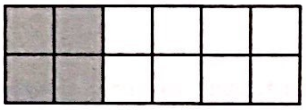
3. Group the squares to make an equivalent fraction.

a) 

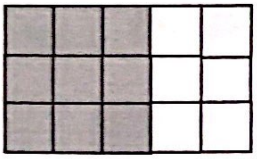
$\frac{8}{10} = \frac{\quad}{5}$

b) 

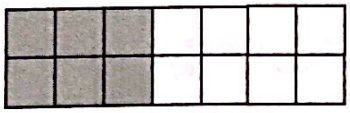
$\frac{4}{8} = \frac{\quad}{2}$

c) 

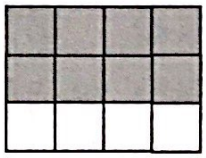
$\frac{4}{12} = \frac{\quad}{3}$

d) 

$\frac{9}{15} = \frac{\quad}{\quad}$

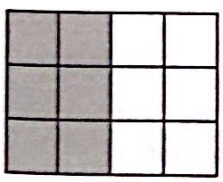
e) 

$\frac{6}{14} = \frac{\quad}{\quad}$

f) 

$\frac{8}{12} = \frac{\quad}{\quad}$

4. Write four equivalent fractions for the amount shaded here.



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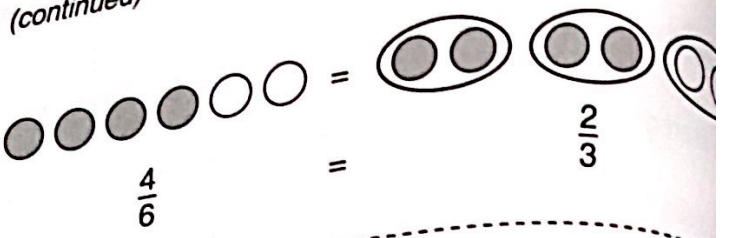
NS5-71: Equivalent Fractions *(continued)*

Candice has a set of grey and white buttons.
Four of the six buttons are grey.



Candice groups buttons to show
that two thirds of the buttons are grey:

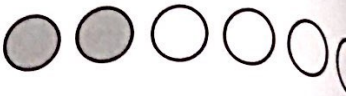
5. Group the buttons to make an equivalent fraction.

a) 

$\frac{4}{6} = \frac{\quad}{\quad}$

b) 

$\frac{3}{6} = \frac{\quad}{\quad}$

c) 

$\frac{2}{6} = \frac{\quad}{\quad}$

d) 

$\frac{6}{9} = \frac{\quad}{\quad}$

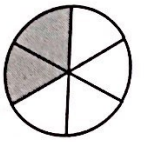
e) 

$\frac{8}{10} = \frac{\quad}{\quad}$

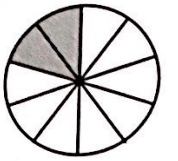
6. Group the circles to make an equivalent fraction.
The grouping in the first question has already been done for you.

a) 

$\frac{2}{8} = \frac{\quad}{4}$

b) 

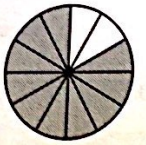
$\frac{2}{6} = \frac{\quad}{3}$

c) 

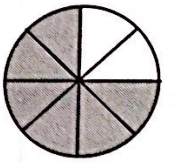
$\frac{2}{10} = \frac{\quad}{5}$

d) 

$\frac{4}{6} = \frac{\quad}{\quad}$

e) 

$\frac{10}{12} = \frac{\quad}{\quad}$

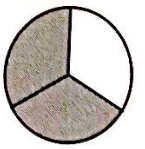
f) 

$\frac{6}{8} = \frac{\quad}{\quad}$

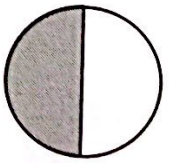
7. Cut each pie into smaller pieces to make an equivalent fraction.

a) 

$\frac{1}{3} = \frac{\quad}{6}$

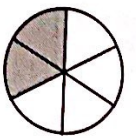
b) 

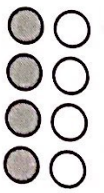
$\frac{2}{3} = \frac{\quad}{9}$

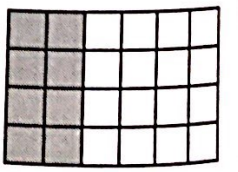
c) 

$\frac{1}{2} = \frac{\quad}{4}$

8. Write as many equivalent fractions as you can for each picture.

a) 

b) 

c) 

9. A pizza is cut into 8 pieces. Each piece is covered with olives, mushrooms or both.

$\frac{1}{4}$ of the pizza is covered in olives.

$\frac{7}{8}$ of the pizza is covered in mushrooms.

Draw a picture to show how many pieces have both olives and mushrooms on them.